

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
12 August 2004 (12.08.2004)

PCT

(10) International Publication Number  
WO 2004/068781 A1

(51) International Patent Classification<sup>7</sup>: H04L 5/20, 25/02

(21) International Application Number:

PCT/IB2004/050054

(22) International Filing Date: 27 January 2004 (27.01.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

03100181.1 29 January 2003 (29.01.2003) EP  
03104627.9 10 December 2003 (10.12.2003) EP

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(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

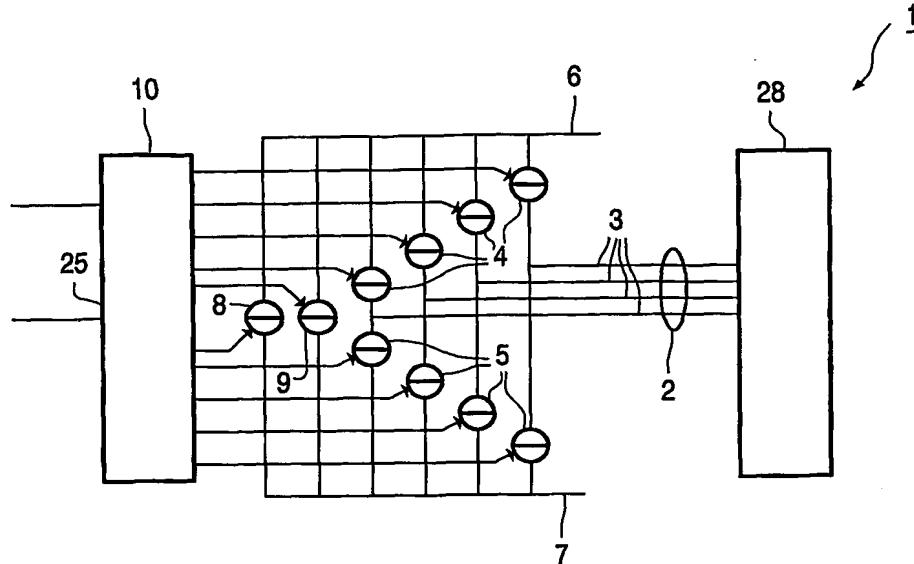
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,

[Continued on next page]

(54) Title: DATA COMMUNICATION USING CONSTANT TOTAL CURRENT



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(57) Abstract: A data communication system, comprising at least three signal conductors and a first and a second power supply terminal, for supplying currents of mutually opposite direction to the signal conductors respectively. A driver circuit establishes respective combinations of currents through the signal conductors from a selectable set of combinations, which includes combinations with currents from the first supply terminal and to the second supply terminal, so that a sum of the currents through the signal conductors substantially has a same value for each combination and at least one of the conductors in operation does not merely function in a differential-pair relation with another one of the conductors, the driver circuit determining which of the combinations from the set are established depending on information to be transmitted.

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**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

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